Sheet 1 of

| Form PTO-1449  |  |        |       |        |       |       |         |                      | Docket Number<br>12-1212              | Application Number<br>N/A |                       |                           |               |  |
|--|--|--------|-------|--------|-------|-------|---------|----------------------|---------------------------------------|---------------------------|-----------------------|---------------------------|---------------|--|
| INFORMATION DISCLOSURE CITATION IN AN APPLICATION                      |  |        |       |        |       |       |         |                      | Applicant KINTIS, ET AL.              |                           |                       |                           |               |  |
| (Use several sheets if necessary)                                      |  |        |       |        |       |       |         |                      | Filing Date N/A                       |                           | Group Art Unit<br>N/A |                           |               |  |
|  |  |        |       |        |       |       |         | U. S. PAT            | ENT DOCUMENTS                         |                           |                       | _                         |               |  |
| EXAMINER<br>INITIAL  | DOCUMENT NUMBER DA   |        |       |        |       |       |         | DATE                 | NAME                                  | CLASS                     | SUB<br>CLASS          | FILING DATE<br>IF APPROP. |               |  |
| EF.  | 4  | 6      | 4     | 1      | 3     | 6     | 9       | 02/03/87             | Grote, et al.                         |                           |                       |                           | ==            |  |
| GE   | 4  | 8      | 4     | 1      | 1     | 6     | 9       | 06/20/89             | Tsironis, et al.                      | <u> </u>                  |                       | 3 PT                      |               |  |
| OP   | 5  | 4      | 2     | 8      | 8     | 3     | 8       | 06/27/95             | Chang, et al.                         |                           |                       | s<br>114[                 |               |  |
| CF   | 5  | 7      | 9     | 4      | 1     | 3     | 1       | 08/11/98             | Cairns, et al.                        |                           |                       | 96/6                      |               |  |
| Œ  | ,5   | 9      | 0     | 3      | 5     | 5     | 5       | 05/11/99             | Wildauer, et al.                      |                           |                       | )<br>10.                  |               |  |
| 6  | 6  | 0      | 5     | 4      | 8     | 8     | 9       | 04/25/00             | Kobayashi, et al.                     | <u> </u>                  |                       |                           |               |  |
| Ø  | 6  | 0      | 7     | 8      | 8     | 0     | 2       | 06/20/00             | Kobayashi, et al.                     |                           |                       |                           |               |  |
| ER   | 6  | 1_     | 4     | 4      | 2     | 3     | 6       | 11/07/00             | Vice, et al.                          |                           |                       |                           |               |  |
|  |  |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
| FOREIGN PATENT DOCUMENTS   |  |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
|  | DOCUMENT NUMBER  |        |       |        |       |       |         | DATE                 | COUNTRY                               | CLASS                     | SUB<br>CLASS          | Tran                      | slation<br>No |  |
|  |  |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
|  |  |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
|  |  |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
|  |  |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |  |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
| Œ  | "Effects of Offsets on Bipolar Integrated Circuit Mixer Even-Order Distortion Terms", by Coffing, et al., IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol. 49, no. 1, January 2001, pages 23-30.   |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
| EF   | "An Actively Balanced GaAs HBT-Schottky Mixer for 3-V Wireless Applications", by Kobayashi, et al., IEEE MICROWAVE AND GUIDED WAVE LETTERS, vol. 7, no. 7, July 1997, pages 181-183.                         |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
| EF   | "An 18-22-GHz Down-Converter Based on GaAs/A1GaAs HBT-Schottky Diode Integrated Technology", by Kobayashi, et al., <u>IEEE MICROWAVE AND GUIDED WAVE LETTERS</u> , vol. 7, no. 4, April 1997, pages 106-108. |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
| EF   | MICROWAVES AND WIRELESS SIMPLIFIED, by T. S. Laverghetta, Artech House 1998, pages 90-92.  |        |       |        |       |       |         |                      |                                       |                           |                       |                           |               |  |
| DATE CONSIDERED 11.  |  |        |       |        |       |       |         |                      |                                       |                           |                       |                           | 14            |  |
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